

Agricultural Waste Management

Story County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
6: Okoboji-----	95	Very limited Depth to saturated zone Leaching limitation Restricted permeability	1.00 0.70 0.30	Very limited Depth to saturated zone Restricted permeability	1.00 0.22	Very limited Depth to saturated zone Restricted permeability	1.00 0.22
27B: Terril-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
27C: Terril-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.91 0.02
34C: Estherville-----	100	Very limited Filtering capacity Droughty	1.00 0.80	Very limited Filtering capacity Droughty	1.00 0.80	Very limited Filtering capacity Droughty Too steep for surface application Too steep for sprinkler application	1.00 0.80 0.66 0.01
41B: Sparta-----	100	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.25	Very limited Filtering capacity Droughty	1.00 0.25	Very limited Filtering capacity Droughty Too steep for surface application	1.00 0.25 0.08
41C: Sparta-----	100	Very limited		Very limited		Very limited	

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41D: Sparta-----	90	Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Leaching limitation	0.45	Droughty	0.25	Too steep for surface application	0.91
		Droughty	0.25			Droughty	0.25
						Too steep for sprinkler application	0.02
		Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Filtering capacity	1.00
		Leaching limitation	0.45	Droughty	0.25	Too steep for sprinkler application	0.77
		Droughty	0.25			Droughty	0.25
52B: Bode-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
54: Zook-----	95	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Flooding	1.00	Flooding	1.00
		Flooding	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Leaching limitation	0.50				
55: Nicollet-----	95	Somewhat limited Depth to saturated zone	0.02	Somewhat limited Depth to saturated zone	0.02	Somewhat limited Depth to saturated zone	0.02
62C3: Storden-----	95	Not limited		Not limited		Somewhat limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
62D: Storden-----	95	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
62D3: Storden-----	95	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
62E: Storden-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
62E3: Storden-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
62F: Storden-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00

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65F: Lindley-----	95					Too steep for sprinkler application	1.00
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Depth to saturated zone	0.68	Depth to saturated zone	0.68	Too steep for sprinkler application	1.00
		Restricted permeability	0.30	Too acid	0.31	Depth to saturated zone	0.68
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
90: Okoboji-----	95					Restricted permeability	0.22
		Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70	Restricted permeability	0.22	Restricted permeability	0.22
		Restricted permeability	0.30				
95: Harps-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70				
107: Webster-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70				
108: Wadena-----	90	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Droughty	0.01	Droughty	0.01	Droughty	0.01

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
108B: Wadena-----	95	Very limited Filtering capacity Droughty	1.00 0.01	Very limited Filtering capacity Droughty	1.00 0.01	Very limited Filtering capacity Too steep for surface application Droughty	1.00 0.08 0.01
135: Coland-----	95	Very limited Depth to saturated zone Flooding Leaching limitation	1.00 1.00 0.70	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 1.00
136B: Ankeny-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application	1.00 0.08
138B: Clarion-----	85	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
138C: Clarion-----	90	Not limited		Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.91 0.02
138C2: Clarion-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too steep for sprinkler application	0.02
138D2: Clarion-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
168B: Hayden-----	90	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
168C: Hayden-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
168E: Hayden-----	90	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.97
168F: Hayden-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
175: Dickinson-----	95	Very limited		Very limited		Very limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
175B: Dickinson-----	95	Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Droughty	0.01	Droughty	0.01	Droughty	0.01
		Very limited		Very limited		Very limited	
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
175C: Dickinson-----	90	Droughty	0.01	Droughty	0.01	Too steep for surface application	0.08
						Droughty	0.01
		Very limited		Very limited		Very limited	
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
201B: Coland-----	65	Droughty	0.01	Droughty	0.01	Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
						Droughty	0.01
		Very limited		Very limited		Very limited	
Terril-----	30	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Leaching limitation	0.70				
		Not limited		Not limited		Somewhat limited	
202: Cylinder-----	95					Too steep for surface application	0.08
		Very limited		Very limited		Very limited	
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
203: Cylinder-----	95	Very limited		Very limited		Very limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
221: Palms-----	95	Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
		Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Low adsorption Leaching limitation	0.97 0.90	Low adsorption	1.00	Low adsorption	0.97
236B: Lester-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
236C: Lester-----	85	Not limited		Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.91 0.02
236C2: Lester-----	85	Not limited		Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.91 0.02
236D: Lester-----	90	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application Too steep for sprinkler application	1.00 0.77
236D2: Lester-----	90	Somewhat limited		Somewhat limited		Very limited	

FIELD OFFICE TECHNICAL GUIDE Sec. II
WASTE DISPOSAL INTERPRETATIONS

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Slope	0.63	Slope	0.63	Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
236E: Lester-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
236F: Lester-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
253B: Farrar-----	90	Very limited Depth to dense layer	1.00	Not limited		Somewhat limited Too steep for surface application	0.08
259: Biscay-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Leaching limitation	0.70				
274: Rolfe-----	100	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Too acid	0.02	Too acid	0.07	Too acid	0.07

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
284: Flagler-----	95	Very limited Filtering capacity Droughty	1.00 0.24	Very limited Filtering capacity Droughty	1.00 0.24	Very limited Filtering capacity Droughty	1.00 0.24
284B: Flagler-----	100	Very limited Filtering capacity Droughty	1.00 0.24	Very limited Filtering capacity Droughty	1.00 0.24	Very limited Filtering capacity Droughty Too steep for surface application	1.00 0.24 0.08
288: Ottosen-----	95	Somewhat limited Depth to saturated zone Restricted permeability	0.43 0.30	Somewhat limited Depth to saturated zone Restricted permeability	0.43 0.22	Somewhat limited Depth to saturated zone Restricted permeability	0.43 0.22
356G: Hayden-----	60	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application Too steep for sprinkler application	1.00 1.00
Storden-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application Too steep for sprinkler application	1.00 1.00
386: Cordova-----	90	Very limited Depth to saturated zone Leaching limitation Restricted permeability	1.00 0.50 0.30	Very limited Depth to saturated zone Restricted permeability	1.00 0.22	Very limited Depth to saturated zone Restricted permeability	1.00 0.22

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388: Kossuth-----	95	Very limited Depth to saturated zone Leaching limitation Restricted permeability	1.00 0.70 0.30	Very limited Depth to saturated zone Restricted permeability	1.00 0.22	Very limited Depth to saturated zone Restricted permeability	1.00 0.22
485: Spillville-----	95	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
506: Wacousta-----	100	Very limited Depth to saturated zone Leaching limitation	1.00 0.70	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
507: Canisteo-----	95	Very limited Depth to saturated zone Leaching limitation	1.00 0.70	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
536: Hanlon-----	90	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
559: Talcot-----	100	Very limited Depth to saturated zone Filtering capacity Leaching limitation	1.00 1.00 0.70	Very limited Depth to saturated zone Filtering capacity	1.00 1.00	Very limited Depth to saturated zone Filtering capacity	1.00 1.00
638C2: Clarion-----	50	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Storden-----	40	Not limited		Not limited		Too steep for sprinkler application	0.02
						Somewhat limited	
						Too steep for surface application	0.91
638D2: Clarion-----	50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Too steep for sprinkler application	0.02
						Very limited	
						Too steep for surface application	1.00
Storden-----	40	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Too steep for sprinkler application	0.77
						Very limited	
						Too steep for surface application	1.00
828B: Zenor-----	85	Very limited Filtering capacity Droughty	1.00 0.99	Very limited Filtering capacity Droughty	1.00 0.99	Too steep for sprinkler application	0.77
						Very limited	
						Filtering capacity	1.00
828C2: Zenor-----	85	Very limited Filtering capacity Droughty	1.00 0.99	Very limited Filtering capacity Droughty	1.00 0.99	Droughty	0.99
						Too steep for surface application	0.08
						Very limited	
						Filtering capacity	1.00
						Droughty	0.99
						Too steep for surface application	0.91

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too steep for sprinkler application	0.02
956: Harps-----	60	Very limited Depth to saturated zone Leaching limitation Restricted permeability	1.00 0.70 0.30	Very limited Depth to saturated zone Restricted permeability	1.00 0.22	Very limited Depth to saturated zone Restricted permeability	1.00 0.22
Okoboji-----	40	Very limited Depth to saturated zone Leaching limitation	1.00 0.70	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
1178: Waukee Variant-----	100	Not limited		Not limited		Not limited	
1314: Hanlon-----	60	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
Spillville-----	30	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
1585: Spillville-----	60	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
Coland-----	30	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 1.00
4000: Urban Land-----	100	Not rated		Not rated		Not rated	
5010: Pits-----	100	Not rated		Not rated		Not rated	

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5030: Pits-----	100	Not rated		Not rated		Not rated	
5040: Orthents-----	100	Not rated		Not rated		Not rated	
5050: Orthents-----	100	Not rated		Not rated		Not rated	
5060: Pits-----	100	Not rated		Not rated		Not rated	
W: Water-----	100	Not rated		Not rated		Not rated	